

ABSTRACT OF THE DISCLOSURE

A new system of suspension and car body control
art in a car of a wheel-in motor system for variably
controlling a spring and a damper according to a road
5 state and controlling car body posture, thereby
improving comfortableness to ride in.

A wheel-in motor which is installed in a wheel and
has an output shaft rotating with the wheel is
provided. In an arm capable of swinging in the
10 longitudinal direction of the car body, which is used
for each suspension, one end thereof is fixed to a car
body with a pivot, and the other end is connected to
the wheel-in motor so as to rotate relatively to the
output shaft.

15 The car body is supported with the arms. By
controlling the revolution speed and torque of each
wheel-in motor of the front and rear wheels during
traveling of the car and using the swing motion of the
arm in the longitudinal direction of the car body, the
20 posture of the car body is controlled.